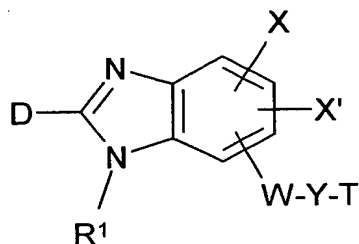


# Patent Claims

## 1. Compounds of the formula I



in which

D is an aromatic carbocyclic or heterocyclic ring having from 0 to 4 N, O and/or S atoms which is unsubstituted or monosubstituted or polysubstituted by Hal, A, OR<sup>2</sup>, N(R<sup>2</sup>)<sub>2</sub>, NO<sub>2</sub>, CN, COOR<sup>2</sup> or CON(R<sup>2</sup>)<sub>2</sub>,

X and X' are each, independently of one another, H, Hal, A, OR<sup>2</sup>, N(R<sup>2</sup>)<sub>2</sub>, NO<sub>2</sub>, CN, COOR<sup>2</sup> or CON(R<sup>2</sup>)<sub>2</sub>,

R<sup>1</sup> is H or A,

R<sup>2</sup> is H, A, -[C(R<sup>1</sup>)<sub>2</sub>]<sub>n</sub>-Ar', -[C(R<sup>1</sup>)<sub>2</sub>]<sub>n</sub>-Het', -[C(R<sup>1</sup>)<sub>2</sub>]<sub>n</sub>-cycloalkyl, -[C(R<sup>1</sup>)<sub>2</sub>]<sub>n</sub>-N(R<sup>1</sup>)<sub>2</sub> or -[C(R<sup>1</sup>)<sub>2</sub>]<sub>n</sub>-OR<sup>1</sup>,

W is -[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>CONR<sup>2</sup>[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>-, -[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>NR<sup>2</sup>CO[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>-, -[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>O[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>-, -[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>NR<sup>2</sup>[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>-, -[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>O[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>CONR<sup>2</sup>[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>-, -[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>NR<sup>2</sup>[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>CONR<sup>2</sup>[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>-, -[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>NR<sup>2</sup>COO[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>- or -[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>S(O)<sub>m</sub>[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>CONR<sup>2</sup>[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>-,

Y is alkylene, cycloalkylene, Het-diyl or Ar-diyl,

T is a monocyclic or bicyclic, saturated, unsaturated or aromatic carbocyclic or heterocyclic ring having from 0 to 4 N, O and/or S atoms which is unsubstituted or monosubstituted, disubstituted or trisubstituted by =O, =S,

- $=NR^2$ ,  $=N-CN$ ,  $=N-NO_2$ ,  $=NOR^2$ ,  $=NCOR^2$ ,  $=NCOOR^2$ ,  
 $=NOCOR^2$ ,  $R^2$ , Hal,  $-[C(R^1)_2]_n-Ar$ ,  $-[C(R^1)_2]_n-Het$ ,  $-[C(R^1)_2]_n-$   
 cycloalkyl,  $OR^2$ ,  $N(R^2)_2$ ,  $NO_2$ ,  $CN$ ,  $COOR^2$ ,  $CON(R^2)_2$ ,  
 $NR^2COA$ ,  $NR^2SO_2A$ ,  $COR^2$  and/or  $S(O)_m A$ ,  
 5           A       is unbranched or branched alkyl having 1-10 carbon  
                   atoms, in which one or two  $CH_2$  groups may be replaced  
                   by O or S atoms and/or by  $-CH=CH-$  groups and/or in  
                   addition 1-7 H atoms may be replaced by F,  
 10           Ar       is phenyl, naphthyl or biphenyl, each of which is  
                   unsubstituted or monosubstituted, disubstituted or  
                   trisubstituted by Hal, A,  $OR^2$ ,  $N(R^2)_2$ ,  $NO_2$ ,  $CN$ ,  $COOR^2$ ,  
                    $CON(R^2)_2$ ,  $NR^2COA$ ,  $NR^2CON(R^2)_2$ ,  $NR^2SO_2A$ ,  $COR^2$ ,  
 15                        $SO_2N(R^2)_2$ ,  $S(O)_m A$ ,  $-[C(R^1)_2]_n-COOR^2$  or  $-O-[C(R^1)_2]_o-$   
                    $COOR^2$ ,  
                   Ar'       is phenyl which is unsubstituted or monosubstituted,  
                   disubstituted or trisubstituted by Hal, A,  $OR^1$ ,  $N(R^1)_2$ ,  $NO_2$ ,  
 20                        $CN$ ,  $COOR^1$ ,  $CON(R^1)_2$ ,  $NR^1COA$ ,  $NR^1SO_2A$ ,  $COR^1$ ,  
                    $SO_2N(R^1)_2$ ,  $S(O)_m A$ ,  $-[C(R^1)_2]_n-COOR^1$  or  $-O-[C(R^1)_2]_o-$   
                    $COOR^1$ ,  
                   Het       is a monocyclic or bicyclic, saturated, unsaturated or  
 25                       aromatic heterocyclic ring having from 1 to 4 N, O and/or S  
                   atoms which is unsubstituted or monosubstituted,  
                   disubstituted or trisubstituted by carbonyl oxygen,  $=S$ ,  
                    $=N(R^1)_2$ , Hal, A,  $-[C(R^1)_2]_n-Ar$ ,  $-[C(R^1)_2]_n-Het'$ ,  $-[C(R^1)_2]_n-$   
 30                       cycloalkyl,  $-[C(R^1)_2]_n-OR^2$ ,  $-[C(R^1)_2]_n-N(R^2)_2$ ,  $NO_2$ ,  $CN$ ,  
                    $-[C(R^1)_2]_n-COOR^2$ ,  $-[C(R^1)_2]_n-CON(R^2)_2$ ,  $-[C(R^1)_2]_n-NR^2COA$ ,  
                    $NR^2CON(R^2)_2$ ,  $-[C(R^1)_2]_n-NR^2SO_2A$ ,  $COR^2$ ,  $SO_2N(R^2)_2$   
                   and/or  $S(O)_m A$ ,  
 35           Het'       is a monocyclic or bicyclic, saturated, unsaturated or  
                   aromatic heterocyclic ring having from 1 to 4 N, O and/or S

atoms which is unsubstituted or monosubstituted or disubstituted by carbonyl oxygen, =S, =N(R<sup>1</sup>)<sub>2</sub>, Hal, A, OR<sup>1</sup>, N(R<sup>1</sup>)<sub>2</sub>, NO<sub>2</sub>, CN, COOR<sup>1</sup>, CON(R<sup>1</sup>)<sub>2</sub>, NR<sup>1</sup>COA, NR<sup>1</sup>SO<sub>2</sub>A, COR<sup>1</sup>, SO<sub>2</sub>N(R<sup>1</sup>)<sub>2</sub> and/or S(O)<sub>m</sub>A,

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Hal is F, Cl, Br or I,

m is 0, 1 or 2,

n is 0, 1 or 2,

o is 1, 2 or 3,

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and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.

2. Compounds of the formula I according to Claim 1, in which

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D is an aromatic carbocyclic or heterocyclic ring having from 0 to 4 N, O and/or S atoms which is unsubstituted or monosubstituted or polysubstituted by Hal, A, OR<sup>1</sup>, N(R<sup>1</sup>)<sub>2</sub>, NO<sub>2</sub>, CN, COOR<sup>1</sup> or CON(R<sup>1</sup>)<sub>2</sub>,

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and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.

3. Compounds of the formula I according to Claim 1 or 2, in which

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D is phenyl, pyrrolyl, furyl, thiophenyl, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, pyrazolyl, imidazolyl, oxazolyl, isoxazolyl, thiazolyl, isothiazolyl, triazolyl, tetrazolyl or triazinyl, each of which is unsubstituted or monosubstituted or polysubstituted by Hal, A, OR<sup>2</sup>, N(R<sup>2</sup>)<sub>2</sub>, NO<sub>2</sub>, CN, COOR<sup>2</sup> or CON(R<sup>2</sup>)<sub>2</sub>,

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and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.

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4. Compounds of the formula I according to one or more of Claims 1-3,  
in which
- 5 D is phenyl, pyrrolyl, furyl, thiophenyl, pyridinyl, pyrimidinyl,  
pyridazinyl, pyrazinyl, pyrazolyl, imidazolyl, oxazolyl,  
isoxazolyl, thiazolyl, isothiazolyl, triazolyl, tetrazolyl or  
triazinyl, each of which is unsubstituted or monosubstituted or  
polysubstituted by Hal, A, OR<sup>1</sup>, N(R<sup>1</sup>)<sub>2</sub>, NO<sub>2</sub>, CN, COOR<sup>1</sup> or  
CON(R<sup>1</sup>)<sub>2</sub>,
- 10 and pharmaceutically usable derivatives, solvates and stereoisomers  
thereof, including mixtures thereof in all ratios.
5. Compounds of the formula I according to one or more of Claims 1-4,  
in which
- 15 D is an aromatic carbocyclic or heterocyclic ring having from 0  
to 4 N, O and/or S atoms which is monosubstituted or  
polysubstituted by Hal,
- 20 and pharmaceutically usable derivatives, solvates and stereoisomers  
thereof, including mixtures thereof in all ratios.
6. Compounds of the formula I according to one or more of Claims 1-5,  
in which
- 25 D is phenyl, pyrrolyl, furyl, thiophenyl, pyridinyl, pyrimidinyl,  
pyridazinyl, pyrazinyl, pyrazolyl, imidazolyl, oxazolyl,  
isoxazolyl, thiazolyl, isothiazolyl or triazinyl, each of which is  
monosubstituted or polysubstituted by Hal,
- 30 and pharmaceutically usable derivatives, solvates and stereoisomers  
thereof, including mixtures thereof in all ratios.
7. Compounds of the formula I according to one or more of Claims 1-6,  
in which
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D is phenyl, thiophenyl or pyridinyl, each of which is monosubstituted or polysubstituted by Hal, and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.

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8. Compounds of the formula I according to one or more of Claims 1-7, in which X and X' are H, and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.

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9. Compounds of the formula I according to one or more of Claims 1-8, in which  $R^2$  is H, A or  $-[C(R^1)_2]_n-Ar'$ , and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.

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10. Compounds of the formula I according to one or more of Claims 1-9, in which Y is phenylene which is unsubstituted or monosubstituted or disubstituted by A, Br, Cl or F, and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.

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11. Compounds of the formula I according to one or more of Claims 1-10, in which Ar is phenyl, naphthyl or biphenyl, each of which is unsubstituted or monosubstituted, disubstituted or trisubstituted by Hal, A,  $OR^1$ ,  $N(R^1)_2$ ,  $NO_2$ , CN,  $COOR^1$ ,

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$\text{CON(R}^1)_2$ ,  $\text{NR}^1\text{COA}$ ,  $\text{NR}^1\text{CON(R}^1)_2$ ,  $\text{NR}^1\text{SO}_2\text{A}$ ,  $\text{COR}^1$ ,  
 $\text{SO}_2\text{N(R}^1)_2$ ,  $\text{S(O)}_m\text{A}$ ,  $-\text{[C(R}^1)_2]_n-\text{COOR}^1$  or  $-\text{O-[C(R}^1)_2]_o-\text{COOR}^1$ ,  
 and pharmaceutically usable derivatives, solvates and stereoisomers  
 thereof, including mixtures thereof in all ratios.

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12. Compounds of the formula I according to one or more of Claims 1-11,  
 in which

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$\text{T}$  is a monocyclic saturated or unsaturated carbocyclic or  
 heterocyclic ring having 1 or 2 N and/or O atoms which is  
 unsubstituted or monosubstituted or disubstituted by  $=\text{O}$ ,  $=\text{S}$ ,  
 $=\text{NR}^1$ ,  $=\text{NOR}^1$ ,  $=\text{N-CN}$ ,  $=\text{N-NO}_2$ ,  $=\text{NCOR}^1$ ,  $=\text{NCOOR}^1$ ,  
 $=\text{NOCOR}^1$ , A, Hal and/or  $\text{S(O)}_m\text{A}$ ,

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and pharmaceutically usable derivatives, solvates and stereoisomers  
 thereof, including mixtures thereof in all ratios.

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13. Compounds of the formula I according to one or more of Claims 1-12,  
 in which

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$\text{T}$  is a monocyclic saturated or unsaturated heterocyclic ring  
 having 1 or 2 N and/or O atoms which is unsubstituted or  
 monosubstituted or disubstituted by  $=\text{O}$ ,  $=\text{S}$ ,  $=\text{NR}^1$  or  $=\text{NOR}^1$ ,  
 and pharmaceutically usable derivatives, solvates and stereoisomers  
 thereof, including mixtures thereof in all ratios.

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14. Compounds of the formula I according to one or more of Claims 1-13,  
 in which

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$\text{T}$  is piperidin-1-yl, pyrrolidin-1-yl, pyridyl, morpholin-4-yl,  
 piperazin-1-yl, pyrazin-1-yl, 1,3-oxazolidin-3-yl, 2H-pyridazin-  
 2-yl, azepan-1-yl, 2-azabicyclo[2.2.2]octan-2-yl, pyrazol-2-yl  
 or 1,2-dihydropyrazol-2-yl, each of which is unsubstituted or

monosubstituted or disubstituted by =O, =NR<sup>1</sup>, =S, =NOR<sup>1</sup>, A, Hal and/or S(O)<sub>m</sub>A,

or phenyl, which may be monosubstituted, disubstituted or trisubstituted by A, Hal and/or S(O)<sub>m</sub>A,

and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.

15. Compounds of the formula I according to one or more of Claims 1-14, in which

T is 2-oxopiperidin-1-yl, 2-oxopyrrolidin-1-yl, 2-oxo-1*H*-pyridin-1-yl, 3-oxomorpholin-4-yl, 4-oxo-1*H*-pyridin-1-yl, 2,6-dioxopiperidin-1-yl, 2-oxopiperazin-1-yl, 2-oxopyrazin-1-yl, 2,6-dioxopiperazin-1-yl, 2,5-dioxopyrrolidin-1-yl, 2-oxo-1,3-oxazolidin-3-yl, 3-oxo-2*H*-pyridazin-2-yl, 2-caprolactam-1-yl (= 2-oxoazepan-1-yl), 2-hydroxy-6-oxopiperazin-1-yl, 2-azabicyclo[2.2.2]octan-3-on-2-yl, 2-methoxy-6-oxopiperazin-1-yl, 5,6-dihydro-1*H*-pyrimidin-2-oxo-1-yl, 2-iminopiperidin-1-yl, 2-iminopyrrolidin-1-yl, 2-imino-1*H*-pyridin-1-yl, 3-iminomorpholin-4-yl, 4-imino-1*H*-pyridin-1-yl, 2,6-diiminopiperidin-1-yl, 2-iminopiperazin-1-yl, 2,6-diiminopiperazin-1-yl, 2,5-diiminopyrrolidin-1-yl, 2-imino-1,3-oxazolidin-3-yl, 3-imino-2*H*-pyridazin-2-yl, 2-iminoazepan-1-yl, 2-hydroxy-6-iminopiperazin-1-yl, 2-methoxy-6-iminopiperazin-1-yl or pyridyl,

and the corresponding hydroxyimino, alkoxyimino and thioxo derivatives,

or phenyl, which may be monosubstituted, disubstituted or trisubstituted by A, Hal and/or S(O)<sub>m</sub>A,

and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.

16. Compounds of the formula I according to one or more of Claims 1-15, in which

5 T is 2-oxopiperidin-1-yl, 2-oxopyrrolidin-1-yl, 2-oxo-1*H*-pyridin-1-yl, 3-oxomorpholin-4-yl, 4-oxo-1*H*-pyridin-1-yl, 2,6-dioxopiperidin-1-yl, 2-oxopiperazin-1-yl, 2,6-dioxopiperazin-1-yl, 2-oxopyrazin-1-yl, 2,5-dioxopyrrolidin-1-yl, 2-oxo-1,3-oxazolidin-3-yl, 3-oxo-2*H*-pyridazin-2-yl, 2-caprolactam-1-yl (= 10 2-oxoazepan-1-yl), 2-hydroxy-6-oxopiperazin-1-yl, 2-azabicyclo[2.2.2]octan-3-on-2-yl, 2-methoxy-6-oxopiperazin-1-yl, 5,6-dihydro-1*H*-pyrimidin-2-oxo-1-yl, 2-iminopiperidin-1-yl, 2-iminopyrrolidin-1-yl or pyridyl, 15 or phenyl, which may be monosubstituted, disubstituted or trisubstituted by A, Hal and/or S(O)<sub>m</sub>A, and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.

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17. Compounds of the formula I according to one or more of Claims 1-16, in which

25 Ar is phenyl which is unsubstituted or monosubstituted or disubstituted by Hal or A, and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.

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18. Compounds of the formula I according to one or more of Claims 1-17, in which

Het-diyl is furandiyl, thiophenediyl, pyrrolediyl, imidazolediyl, pyrazolediyl, oxazolediyl, isoxazolediyl, thiazolediyl, isothiazolediyl, pyridinediyl, pyrimidinediyl, pyrroli-

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dinediyl or piperidinediyl, each of which is unsubstituted or monosubstituted or disubstituted by  $R^2$ ,

$R^2$  is H or alkyl having 1, 2, 3, 4, 5 or 6 carbon atoms, and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.

19. Compounds of the formula I according to one or more of Claims 1-18, in which

D is an aromatic carbocyclic or heterocyclic ring having from 0 to 4 N, O and/or S atoms which is unsubstituted or monosubstituted or polysubstituted by Hal, A,  $OR^1$ ,  $N(R^1)_2$ ,  $NO_2$ , CN,  $COOR^1$  or  $CON(R^1)_2$ ,

X and X' are H,

W is  $-[C(R^2)_2]_nCONR^2[C(R^2)_2]_n-$ ,  $-[C(R^2)_2]_nNR^2CO[C(R^2)_2]_n-$ ,  $-[C(R^2)_2]_nO[C(R^2)_2]_n-$ ,  $-[C(R^2)_2]_nNR^2[C(R^2)_2]_n-$ ,  $-[C(R^2)_2]_nO[C(R^2)_2]_nCONR^2[C(R^2)_2]_n-$ ,  $-[C(R^2)_2]_nNR^2[C(R^2)_2]_nCONR^2[C(R^2)_2]_n-$ ,  $-[C(R^2)_2]_nNR^2COO[C(R^2)_2]_n-$  or  $-[C(R^2)_2]_nS(O)_m[C(R^2)_2]_nCONR^2[C(R^2)_2]_n-$ ,

$R^2$  is H, A or  $-[C(R^1)_2]_n-Ar'$ ,

Y is alkylene, cycloalkylene, Het-diyl or Ar-diyl,

Ar-diyl is phenylene or biphenylene, each of which is unsubstituted or monosubstituted or disubstituted by  $R^2$ ,

Het-diyl is furandiyl, thiophenediyl, pyrrolediyl, imidazolediyl, pyrazolediyl, oxazolediyl, isoxazolediyl, thiazolediyl, isothiazolediyl, pyridinediyl, pyrimidinediyl, pyrrolidinediyl or piperidinediyl, each of which is unsubstituted or monosubstituted or disubstituted by  $R^2$ ,

$R^2$  is H or alkyl having 1, 2, 3, 4, 5 or 6 carbon atoms,

Ar' is phenyl,

- 5 T is a monocyclic saturated or unsaturated carbocyclic or heterocyclic ring having 1 or 2 N and/or O atoms which is unsubstituted or monosubstituted or disubstituted by =O, =S, =NR<sup>1</sup>, =NOR<sup>1</sup>, =N-CN, =N-NO<sub>2</sub>, =NCOR<sup>1</sup>, =NCOOR<sup>1</sup>, =NOCOR<sup>1</sup>, A, Hal and/or S(O)<sub>m</sub>A,
- 10 R<sup>1</sup> is H or A,
- 10 A is unbranched or branched alkyl having 1-10 carbon atoms, and 1-7 H atoms may be replaced by F, and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.
- 15 20. Compounds of the formula I according to one or more of Claims 1-19, in which
- 20 D is phenyl, pyrrolyl, furyl, thiophenyl, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, pyrazolyl, imidazolyl, oxazolyl, isoxazolyl, thiazolyl, isothiazolyl or triazinyl, each of which is monosubstituted or polysubstituted by Hal,
- 25 X and X' are H,
- 30 W is  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{CONR}^2\text{[C(R}^2\text{)}_2\text{]}_n-$ ,  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{NR}^2\text{CO[C(R}^2\text{)}_2\text{]}_n-$ ,  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{O[C(R}^2\text{)}_2\text{]}_n-$ ,  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{NR}^2\text{[C(R}^2\text{)}_2\text{]}_n-$ ,  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{O[C(R}^2\text{)}_2\text{]}_n\text{CONR}^2\text{[C(R}^2\text{)}_2\text{]}_n-$ ,  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{NR}^2\text{[C(R}^2\text{)}_2\text{]}_n\text{CONR}^2\text{[C(R}^2\text{)}_2\text{]}_n-$ ,  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{NR}^2\text{COO[C(R}^2\text{)}_2\text{]}_n-$  or  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{S(O)}_m\text{[C(R}^2\text{)}_2\text{]}_n\text{CONR}^2\text{[C(R}^2\text{)}_2\text{]}_n-$ ,
- 35 R<sup>2</sup> is H, A or  $-\text{[C(R}^1\text{)}_2\text{]}_n\text{-Ar}'$ ,
- Ar' is phenyl,
- Y is phenylene or piperidinediyl, each of which is unsubstituted or monosubstituted or disubstituted by A, Br, Cl or F,

- 5                   T                   is a monocyclic saturated or unsaturated carbocyclic or heterocyclic ring having 1 or 2 N and/or O atoms which is unsubstituted or monosubstituted or disubstituted by =O, =S, =NR<sup>1</sup>, =NOR<sup>1</sup>, =N-CN, =N-NO<sub>2</sub>, =NCOR<sup>1</sup>, =NCOOR<sup>1</sup>, =NOCOR<sup>1</sup>, A, Hal and/or S(O)<sub>m</sub>A,
- R<sup>1</sup>               is H or A,
- A               is unbranched or branched alkyl having 1-10 carbon atoms, and 1-7 H atoms may be replaced by F,
- 10                   and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.
21.               Compounds of the formula I according to one or more of Claims 1-20, in which
- 15                   D                   is phenyl, pyrrolyl, furyl, thiophenyl, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, pyrazolyl, imidazolyl, oxazolyl, isoxazolyl, thiazolyl, isothiazolyl or triazinyl, each of which is monosubstituted or polysubstituted by Hal,
- 20                   X and X'           are H,
- W               is  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{CONR}^2\text{[C(R}^2\text{)}_2\text{]}_n-$ ,  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{NR}^2\text{CO[C(R}^2\text{)}_2\text{]}_n-$ ,  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{O[C(R}^2\text{)}_2\text{]}_n-$ ,  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{NR}^2\text{[C(R}^2\text{)}_2\text{]}_n-$ ,  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{O[C(R}^2\text{)}_2\text{]}_n\text{CONR}^2\text{[C(R}^2\text{)}_2\text{]}_n-$ ,  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{NR}^2\text{[C(R}^2\text{)}_2\text{]}_n\text{CONR}^2\text{[C(R}^2\text{)}_2\text{]}_n-$ ,  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{NR}^2\text{COO[C(R}^2\text{)}_2\text{]}_n-$  or  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{S(O)}_m\text{[C(R}^2\text{)}_2\text{]}_n\text{CONR}^2\text{[C(R}^2\text{)}_2\text{]}_n-$ ,
- 25                   R<sup>2</sup>               is H, A or  $-\text{[C(R}^1\text{)}_2\text{]}_n\text{-Ar}'$ ,
- Ar'            is phenyl,
- Y               is phenylene or piperidinediyl, each of which is unsubstituted or monosubstituted or disubstituted by A,
- 30                   Br, Cl or F,
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- T is 2-oxopiperidin-1-yl, 2-oxopyrrolidin-1-yl, 2-oxo-1*H*-pyridin-1-yl, 3-oxomorpholin-4-yl, 4-oxo-1*H*-pyridin-1-yl, 2,6-dioxopiperidin-1-yl, 2-oxopiperazin-1-yl, 2,6-dioxopiperazin-1-yl, 2-oxopyrazin-1-yl, 2,5-dioxo-pyrrolidin-1-yl, 2-oxo-1,3-oxazolidin-3-yl, 3-oxo-2*H*-pyridazin-2-yl, 2-caprolactam-1-yl (= 2-oxoazepan-1-yl), 2-hydroxy-6-oxopiperazin-1-yl, 2-azabicyclo[2.2.2]octan-3-on-2-yl, 2-methoxy-6-oxopiperazin-1-yl, 5,6-dihydro-1*H*-pyrimidin-2-oxo-1-yl, 2-iminopiperidin-1-yl, 2-iminopyrrolidin-1-yl or pyridyl, or phenyl, which may be monosubstituted, disubstituted or trisubstituted by A, Hal and/or S(O)<sub>m</sub>A,
- 15 R<sup>1</sup> is H or A,  
A is unbranched or branched alkyl having 1-10 carbon atoms, and 1-7 H atoms may be replaced by F, and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.
22. Compounds of the formula I according to one or more of Claims 1-21, in which
- 25 D is phenyl, pyrrolyl, furyl, thiophenyl, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, pyrazolyl, imidazolyl, oxazolyl, isoxazolyl, thiazolyl, isothiazolyl or triazinyl, each of which is monosubstituted or polysubstituted by Hal,
- 30 X and X' are H,  
W is -[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>CONR<sup>2</sup>[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>- or -[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>S(O)<sub>m</sub>[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>CONR<sup>2</sup>[C(R<sup>2</sup>)<sub>2</sub>]<sub>n</sub>-,
- 35 R<sup>2</sup> is H, A or -[C(R<sup>1</sup>)<sub>2</sub>]<sub>n</sub>-Ar',  
Ar' is phenyl,

- Y is phenylene or piperidinediyl, each of which is unsubstituted or monosubstituted or disubstituted by A, Br, Cl or F,
- 5 T is pyridyl,  
R<sup>1</sup> is H or A,  
A is unbranched or branched alkyl having 1-10 carbon atoms, and 1-7 H atoms may be replaced by F,  
and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.
- 10 23. Compounds of the formula I according to one or more of Claims 1-22, in which
- 15 T is a monocyclic saturated or unsaturated heterocyclic ring having 1 or 2 N and/or O atoms which is monosubstituted or disubstituted by =O, =S, =NR<sup>1</sup> or =NOR<sup>1</sup>,  
and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.
- 20 24. Compounds of the formula I according to one or more of Claims 1-23, in which
- 25 T is piperidin-1-yl, pyrrolidin-1-yl, pyridyl, morpholin-4-yl, piperazin-1-yl, pyrazin-1-yl, 1,3-oxazolidin-3-yl, 2H-pyridazin-2-yl, azepan-1-yl, 2-azabicyclo[2.2.2]octan-2-yl, pyrazol-2-yl or 1,2-dihydropyrazol-2-yl, each of which is monosubstituted or disubstituted by =O, =NR<sup>1</sup>, =S or =NOR<sup>1</sup>,  
30 and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.
- 35 25. Compounds of the formula I according to one or more of Claims 1-24, in which

5 T is 2-oxopiperidin-1-yl, 2-oxopyrrolidin-1-yl, 2-oxo-1*H*-pyridin-1-yl, 3-oxomorpholin-4-yl, 4-oxo-1*H*-pyridin-1-yl, 2,6-dioxopiperidin-1-yl, 2-oxopiperazin-1-yl, 2-oxopyrazin-1-yl, 2,6-dioxopiperazin-1-yl, 2,5-dioxopyrrolidin-1-yl, 2-oxo-1,3-oxazolidin-3-yl, 3-oxo-2*H*-pyridazin-2-yl, 2-caprolactam-1-yl (= 2-oxoazepan-1-yl), 2-hydroxy-6-oxopiperazin-1-yl, 2-azabicyclo[2.2.2]octan-3-on-2-yl, 2-methoxy-6-oxopiperazin-1-yl, 5,6-dihydro-1*H*-pyrimidin-2-oxo-1-yl, 2-iminopiperidin-1-yl, 2-iminopyrrolidin-1-yl, 2-imino-1*H*-pyridin-1-yl, 3-iminomorpholin-4-yl, 4-imino-1*H*-pyridin-1-yl, 2,6-diiminopiperidin-1-yl, 2-iminopiperazin-1-yl, 2,6-diimino-10 piperazin-1-yl, 2,5-diiminopyrrolidin-1-yl, 2-imino-1,3-oxazolidin-3-yl, 3-imino-2*H*-pyridazin-2-yl, 2-iminoazepan-1-yl, 2-hydroxy-6-iminopiperazin-1-yl or 2-methoxy-6-imino-15 piperazin-1-yl, and the corresponding hydroxyimino, alkoxyimino and thioxo derivatives,

20 and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.

25 26. Compounds of the formula I according to one or more of Claims 1-25, in which

30 T is 2-oxopiperidin-1-yl, 2-oxopyrrolidin-1-yl, 2-oxo-1*H*-pyridin-1-yl, 3-oxomorpholin-4-yl, 4-oxo-1*H*-pyridin-1-yl, 2,6-dioxopiperidin-1-yl, 2-oxopiperazin-1-yl, 2,6-dioxopiperazin-1-yl, 2-oxopyrazin-1-yl, 2,5-dioxopyrrolidin-1-yl, 2-oxo-1,3-oxazolidin-3-yl, 3-oxo-2*H*-pyridazin-2-yl, 2-caprolactam-1-yl (= 2-oxoazepan-1-yl), 2-hydroxy-6-oxopiperazin-1-yl, 2-azabicyclo[2.2.2]octan-3-on-2-yl, 2-methoxy-6-oxo-35

piperazin-1-yl, 5,6-dihydro-1*H*-pyrimidin-2-oxo-1-yl,  
 2-iminopiperidin-1-yl or 2-iminopyrrolidin-1-yl,  
 and pharmaceutically usable derivatives, solvates and stereoisomers  
 thereof, including mixtures thereof in all ratios.

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27. Compounds of the formula I according to one or more of Claims 1-26,  
 in which

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D is an aromatic carbocyclic or heterocyclic ring having  
 from 0 to 4 N, O and/or S atoms which is unsubstituted  
 or monosubstituted or polysubstituted by Hal, A, OR<sup>1</sup>,  
 N(R<sup>1</sup>)<sub>2</sub>, NO<sub>2</sub>, CN, COOR<sup>1</sup> or CON(R<sup>1</sup>)<sub>2</sub>,

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X and X' are H,

W is  $-[C(R^2)_2]_nCONR^2[C(R^2)_2]_n-$ ,  $-[C(R^2)_2]_nNR^2CO[C(R^2)_2]_n-$ ,  
 $-[C(R^2)_2]_nO[C(R^2)_2]_n-$ ,  $-[C(R^2)_2]_nNR^2[C(R^2)_2]_n-$ ,  
 $-[C(R^2)_2]_nO[C(R^2)_2]_nCONR^2[C(R^2)_2]_n-$ ,  
 $-[C(R^2)_2]_nNR^2[C(R^2)_2]_nCONR^2[C(R^2)_2]_n-$ ,  
 $-[C(R^2)_2]_nNR^2COO[C(R^2)_2]_n-$  or  
 $-[C(R^2)_2]_nS(O)_m[C(R^2)_2]_nCONR^2[C(R^2)_2]_n-$ ,

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R<sup>2</sup> is H, A or  $-[C(R^1)_2]_n-Ar'$ ,

Y is alkylene, cycloalkylene, Het-diyl or Ar-diyl,

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Ar-diyl is phenylene or biphenylene, each of which is  
 unsubstituted or monosubstituted or disubstituted by R<sup>2</sup>,

Het-diyl is furandiyl, thiophenediyl, pyrrolediyl, imidazolediyl,

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pyrazolediyl, oxazolediyl, isoxazolediyl, thiazolediyl,  
 isothiazolediyl, pyridinediyl, pyrimidinediyl, pyrroli-  
 dinediyl or piperidinediyl, each of which is unsubstituted  
 or monosubstituted or disubstituted by R<sup>2</sup>,

R<sup>2</sup> is H or alkyl having 1, 2, 3, 4, 5 or 6 carbon atoms,

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Ar' is phenyl,

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- T is a monocyclic saturated or unsaturated carbocyclic or heterocyclic ring having 1 or 2 N and/or O atoms which is monosubstituted or disubstituted by =O, =S, =NR<sup>1</sup>, =NOR<sup>1</sup>, =N-CN, =N-NO<sub>2</sub>, =NCOR<sup>1</sup>, =NCOOR<sup>1</sup> or =NOCOR<sup>1</sup>,
- R<sup>1</sup> is H or A,
- A is unbranched or branched alkyl having 1-10 carbon atoms, and 1-7 H atoms may be replaced by F, and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.
28. Compounds of the formula I according to one or more of Claims 1-27, in which
- D is phenyl, pyrrolyl, furyl, thiophenyl, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, pyrazolyl, imidazolyl, oxazolyl, isoxazolyl, thiazolyl, isothiazolyl or triazinyl, each of which is monosubstituted or polysubstituted by Hal,
- X and X' are H,
- W is  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{CONR}^2\text{[C(R}^2\text{)}_2\text{]}_n-$ ,  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{NR}^2\text{CO[ C(R}^2\text{)}_2\text{]}_n-$ ,  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{O[ C(R}^2\text{)}_2\text{]}_n-$ ,  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{NR}^2\text{[C(R}^2\text{)}_2\text{]}_n-$ ,  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{O[ C(R}^2\text{)}_2\text{]}_n\text{CONR}^2\text{[C(R}^2\text{)}_2\text{]}_n-$ ,  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{NR}^2\text{[C(R}^2\text{)}_2\text{]}_n\text{CONR}^2\text{[C(R}^2\text{)}_2\text{]}_n-$ ,  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{NR}^2\text{COO[ C(R}^2\text{)}_2\text{]}_n-$  or  $-\text{[C(R}^2\text{)}_2\text{]}_n\text{S(O)}_m\text{[C(R}^2\text{)}_2\text{]}_n\text{CONR}^2\text{[C(R}^2\text{)}_2\text{]}_n-$ ,
- R<sup>2</sup> is H, A or  $-\text{[C(R}^1\text{)}_2\text{]}_n\text{-Ar}'$ ,
- Ar' is phenyl,
- Y is phenylene or piperidinediyl, each of which is unsubstituted or monosubstituted or disubstituted by A, Br, Cl or F,



T is a monocyclic saturated or unsaturated carbocyclic or heterocyclic ring having 1 or 2 N and/or O atoms which is monosubstituted or disubstituted by =O, =S, =NR<sup>1</sup>, =NOR<sup>1</sup>, =N-CN, =N-NO<sub>2</sub>, =NCOR<sup>1</sup>, =NCOOR<sup>1</sup> or =NOCOR<sup>1</sup>.

 $R^1$  is H or A,

A is unbranched or branched alkyl having 1-10 carbon atoms, and 1-7 H atoms may be replaced by F, and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.

29. Compounds of the formula I according to one or more of Claims 1-28, in which

D is phenyl, pyrrolyl, furyl, thiophenyl, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, pyrazolyl, imidazolyl, oxazolyl, isoxazolyl, thiazolyl, isothiazolyl or triazinyl, each of which is monosubstituted or polysubstituted by Hal,

$X$  and  $X'$  are  $H$ ,

W is  $-[C(R^2)_2]_n CONR^2[C(R^2)_2]_n-$ ,  $-[C(R^2)_2]_n NR^2 CO[C(R^2)_2]_n-$ ,  
 $-[C(R^2)_2]_n O[C(R^2)_2]_n-$ ,  $-[C(R^2)_2]_n NR^2[C(R^2)_2]_n-$ ,  
 $-[C(R^2)_2]_n O[C(R^2)_2]_n CONR^2[C(R^2)_2]_n-$ ,  
 $-[C(R^2)_2]_n NR^2[C(R^2)_2]_n CONR^2[C(R^2)_2]_n-$ ,  
 $-[C(R^2)_2]_n NR^2 COO[C(R^2)_2]_n-$  or  
 $-[C(R^2)_2]_n S(O)_m[C(R^2)_2]_n CONR^2[C(R^2)_2]_n-$ .

$$R^2 \text{ is H, A or } -[C(R^1)_2]_n-Ar',$$

Ar' is phenyl,

Y is phenylene or piperidinediyl, each of which is unsubstituted or monosubstituted or disubstituted by A, Br, Cl or F,

5 T is 2-oxopiperidin-1-yl, 2-oxopyrrolidin-1-yl, 2-oxo-1*H*-pyridin-1-yl, 3-oxomorpholin-4-yl, 4-oxo-1*H*-pyridin-1-yl, 2,6-dioxopiperidin-1-yl, 2-oxopiperazin-1-yl, 2,6-dioxopiperazin-1-yl, 2-oxopyrazin-1-yl, 2,5-dioxo-pyrrolidin-1-yl, 2-oxo-1,3-oxazolidin-3-yl, 3-oxo-2*H*-pyridazin-2-yl, 2-caprolactam-1-yl (= 2-oxoazepan-1-yl), 2-hydroxy-6-oxopiperazin-1-yl, 2-azabicyclo[2.2.2]octan-3-on-2-yl, 2-methoxy-6-oxopiperazin-1-yl, 5,6-dihydro-10 1*H*-pyrimidin-2-oxo-1-yl, 2-iminopiperidin-1-yl or 2-iminopyrrolidin-1-yl,

R<sup>1</sup> is H or A,

15 A is unbranched or branched alkyl having 1-10 carbon atoms, and 1-7 H atoms may be replaced by F, and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.

20 30. Compounds according to Claim 1 selected from the group consisting of

25 2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(3-oxomorpholin-4-yl)phenyl]acetamide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[3-methyl-4-(3-oxomorpholin-4-yl)phenyl]acetamide,

30 2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(2-oxopyridin-1-yl)phenyl]acetamide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(2-oxopyrrolidin-1-yl)phenyl]acetamide,

35 2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[3-methyl-4-(2-oxopyrrolidin-1-yl)phenyl]acetamide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(2-oxopyrazin-1-yl)phenyl]acetamide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(2-iminopyrrolidin-1-yl)phenyl]acetamide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(2-iminopiperidin-1-yl)phenyl]acetamide,

2-(5-chlorothiophen-2-yl)-5-[4-(2-oxopiperidin-1-yl)phenoxy-methyl]-1*H*-benzimidazole,

2-(5-chlorothiophen-2-yl)-5-[4-(2-oxopiperidin-1-yl)phenoxy]-1*H*-benzimidazole,

2-(5-chlorothiophen-2-yl)-5-[4-(2-oxopiperidin-1-yl)phenyl-amino]-1*H*-benzimidazole,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(3-oxomorpholin-4-yl)phenyl]valeramide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(3-oxomorpholin-4-yl)phenyl]-3-phenylpropionamide,

2-[2-(4-chlorophenyl)-1*H*-benzimidazol-5-yl]-*N*-[4-(3-oxomorpholin-4-yl)phenyl]acetamide,

2-[2-(4-chlorophenyl)-1*H*-benzimidazol-5-yl]-*N*-[3-methyl-4-(3-oxomorpholin-4-yl)phenyl]acetamide,

2-[2-(5-chloropyridin-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(3-oxomorpholin-4-yl)phenyl]acetamide,

2-[2-(5-chloropyridin-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[3-methyl-4-(3-oxomorpholin-4-yl)phenyl]acetamide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(2-oxopiperidin-1-yl)benzyl]acetamide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yloxy]-*N*-[4-(3-oxomorpholin-4-yl)phenyl]acetamide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yloxy]-*N*-[4-(3-oxomorpholin-4-yl)phenyl]valeramide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yloxy]-*N*-[4-(2-oxopiperidin-1-yl)benzyl]acetamide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(3-oxomorpholin-4-yl)benzyl]acetamide,

1-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(2-oxopiperidin-1-yl)benzyl]formamide,

*N*-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-4-(2-oxopiperidin-1-yl)benzamide,

*N*-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-ylmethyl]-*N*-[4-(2-oxopiperidin-1-yl)benzyl]amine,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-ylamino]-*N*-[4-(3-oxomorpholin-4-yl)phenyl]acetamide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-(2'-methylsulfonylbiphenyl-4-yl)acetamide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-(3,4,5,6-tetrahydro-2*H*-[1,4']bipyridinyl-4-ylmethyl)acetamide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazole-5-sulfonyl]-*N*-[3-methyl-4-(3-oxomorpholin-4-yl)phenyl]acetamide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazole-5-sulfonyl]-*N*-[4-(3-oxomorpholin-4-yl)phenyl]acetamide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazole-5-sulfonyl]-*N*-[4-(2-oxopyridin-1-yl)phenyl]acetamide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazole-5-sulfonyl]-*N*-[4-(2-oxopiperidin-1-yl)benzyl]acetamide,

3-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(3-oxomorpholin-4-yl)phenyl]propionamide,

3-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[3-methyl-4-(3-oxomorpholin-4-yl)phenyl]propionamide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(2-oxopiperidin-1-yl)phenyl]acetamide,

2-(5-chlorothiophen-2-yl)-1*H*-benzimidazole-5-carboxamide-*N*-[3-methyl-4-(3-oxomorpholin-4-yl)phenyl]amide,

2-(5-chlorothiophen-2-yl)-1*H*-benzimidazole-5-carboxamide-*N*-[4-(3-oxomorpholin-4-yl)phenyl]amide,

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2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(2-iminopiperidin-1-yl)phenyl]valeramide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yloxy]-*N*-[4-(2-oxopiperidin-1-yl)benzyl]acetamide,

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2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yloxy]-*N*-[4-(2-oxo-2*H*-pyrazin-1-yl)phenyl]acetamide,

*N*-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-ylmethyl]-4-(2-oxopiperidin-1-yl)benzamide,

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2-[2-(5-bromothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(3-oxomorpholin-4-yl)phenyl]acetamide,

2-[2-(5-bromothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(2-oxopiperidin-1-yl)phenyl]acetamide,

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2-[2-(5-bromothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(2-oxopyridin-1-yl)phenyl]acetamide,

2-[2-(5-bromothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[4-(2-oxopiperidin-1-yl)benzyl]acetamide,

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2-[2-(5-bromothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-(3,4,5,6-tetrahydro-2*H*-[1,4']bipyridinyl-4-ylmethyl)acetamide,

2-[2-(5-bromothiophen-2-yl)-1*H*-benzimidazol-5-yl]-*N*-[3-methyl-4-(3-oxomorpholin-4-yl)phenyl]acetamide,

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2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yloxy]-*N*-[4-(2-iminopiperidin-1-yl)phenyl]acetamide,

2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yloxy]-*N*-[3-methyl-4-(3-oxomorpholin-4-yl)phenyl]acetamide,

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2-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yloxy]-*N*-[3-fluoro-4-(3-oxomorpholin-4-yl)phenyl]valeramide,

*N*-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-ylmethyl]-2-[4-(3-oxomorpholin-4-yl)phenyl]acetamide,

*N*-[2-(5-chlorothiophen-2-yl)-1*H*-benzimidazol-5-yl]-2-[4-(3-oxomorpholin-4-yl)phenyl]acetamide,

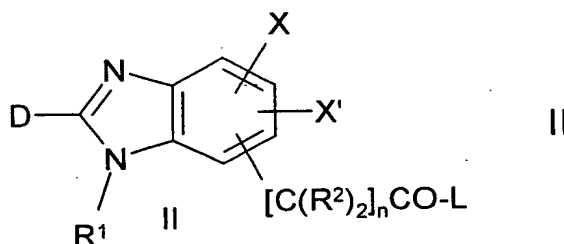
and pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios.

31. Process for the preparation of compounds of the formula I according to Claims 1-30 and pharmaceutically usable derivatives, solvates and stereoisomers thereof, characterised in that

a) for the preparation of a compound of the formula I  
in which

W is  $-[C(R^2)_2]_nCONR^2[C(R^2)_2]_n-$ ,

a compound of the formula II



in which

L is Cl, Br, I or a free or reactively functionally modified OH group,

and  $R^1$ ,  $R^2$ , D, X, X' and n are as defined in Claim 1,

with the proviso that any further OH and/or amino group present is protected,

is reacted with a compound of the formula III



III

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in which

Z' is  $\text{NHR}^2[\text{C}(\text{R}^2)_2]_n\text{-}$ ,

and  $\text{R}^2$ , Y, T and n are as defined in Claim 1,

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and any protecting group is subsequently removed,

b) and/or in that a radical T in a compound of the formula I is converted into another radical T

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by, for example,

i) converting a sulfanyl compound into an imino compound,

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ii) removing an amino-protecting group,

and/or

a base or acid of the formula I is converted into one of its salts.

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32. Compounds of the formula I according to one or more of Claims 1 to 30 as inhibitors of coagulation factor Xa.

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33. Compounds of the formula I according to one or more of Claims 1 to 30 as inhibitors of coagulation factor VIIa.

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34. Medicament comprising at least one compound of the formula I according to one or more of Claims 1 to 30 and/or pharmaceutically usable derivatives, solvates and stereoisomers thereof, including

mixtures thereof in all ratios, and optionally excipients and/or adjuvants.

- 5           35. Medicament comprising at least one compound of the formula I according to one or more of Claims 1 to 30 and/or pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios, and at least one further medicament active ingredient.
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36. Use of compounds according to one or more of Claims 1 to 30 and/or physiologically acceptable salts and solvates thereof for the preparation of a medicament for the treatment of thromboses, myocardial
- 15           infarction, arteriosclerosis, inflammation, apoplexia, angina pectoris, restenosis after angioplasty, claudicatio intermittens, migraine, tumours, tumour diseases and/or tumour metastases.
- 20           37   Set (kit) consisting of separate packs of
- (a)     an effective amount of a compound of the formula I according to one or more of claims 1 to 30 and/or pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures
- 25           thereof in all ratios,
- and
- (b)     an effective amount of a further medicament active ingredient.
- 30
38. Use of compounds of the formula I according to one or more of Claims 1 to 25 and/or pharmaceutically usable derivatives, solvates and stereoisomers thereof, including mixtures thereof in all ratios, for the preparation of a medicament for the treatment of thromboses,
- 35           myocardial infarction, arteriosclerosis, inflammation, apoplexia,



angina pectoris, restenosis after angioplasty, claudicatio intermittens, migraine, tumours, tumour diseases and/or tumour metastases, in combination with at least one further medicament active ingredient.

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